

**IN THE SPECIFICATION:**

On page 2, please add the following reference to the divisional application:

M. --This application is a Divisional Application of pending United States Patent Application Serial Number 09/326,526, filed on June 4, 1999, which claims priority to United States Provisional Patent Application Serial No. 60/087,948, filed June 4, 1998.--

**IN THE CLAIMS:**

~~Cancel~~ in this divisional application original claims 1 through 38 of pending United States patent application Serial Number 09/326,526 before calculating the filing fee.

**Please add new claims:**

39. Apparatus for use in synthesis of arrays of DNA probes, polypeptides, and the like, comprising:
- (a) a substrate with an active surface on which the arrays may be formed;
  - (b) an image former providing a high precision, two-dimensional light image projected onto the substrate active surface, comprising:
    - (1) a light source providing a light beam;
    - (2) a micromirror device receiving the light beam from the source and formed of an array of electronically addressable micromirrors, each of which can be selectively tilted between one of at least two separate positions, wherein in one of the positions of each micromirror the light from the source incident upon the micromirror is deflected away from an optical axis and in a second of the at least two positions of the micromirror the light is reflected along the optical axis; and
    - (3) projection optics receiving the light reflected from the micromirrors along the optical axis and imaging the pattern of the micromirrors onto the active surface of the substrate.
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